

GoldStar

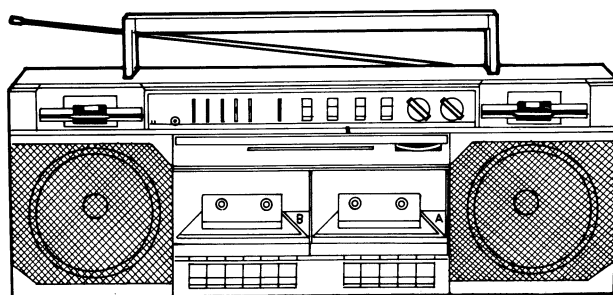
SERVICE MANUAL

STEREO DOUBLE CASSETTE RECORDER

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS", IN THIS MANUAL

MODEL: TWC-7083
(MW/SW/FM)



MODEL: TWC-7083




GoldStar

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SAFETY PRECAUTION

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual, electrical components having such features are identified by a  in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.

SPECIFICATIONS

● MW RADIO

| | |
|----------------------------------|----------------------------|
| Frequency Range | .515—1630 KHz |
| Intermediate Frequency | .455 or 465 KHz (OPTION) |
| Usable Sensitivity | .58 dB (400 Hz, 30% Mod) |
| S/N Ratio | .36 dB (74 dB Input) |
| I.F. Rejection Ratio | .30 dB (At 20 dB S/N SENS) |
| 10% T.H.D. Power Output | .1.8 W (DC), 1.6 W (AC) |
| T.H.D. | .5% (400 Hz 30% Mod.) |
| Audio Response (100 Hz — 3 KHz). | .0 ± 6 dB |

● FM RADIO

| | |
|----------------------------------|--------------------------------------|
| Frequency Range | .87.35 — 108.25 MHz |
| Intermediate Frequency | 10.7 ± 0.1 MHz |
| Usable Sensitivity | .20 dB (30 dB S/N) |
| S/N Ratio | .40 dB (60 dB Input) |
| I.F. Rejection Ratio | .60 dB (Maximum Sensitivity) |
| Automatic Frequency Control | .300 ~ 700 KHz (Input 60 dB) |
| 10% T.H.D. Power Output | .1.8 W/1.6 W (Input 60 dB, DC/AC) |
| T.H.D. | .3% |
| Audio Response. (100 Hz ~ 8 KHz) | .0 ± 6 dB (100 Hz), 0 ± 7 dB (8 KHz) |
| Stereo Separation | .20 dB (60 dB Input At 1KHz) |
| Stereo T.H.D. | .5 % (75 KHz Dev.) |

● SW RADIO

| | |
|------------------------|--------------------------------|
| Frequency Range | .5.7 — 18.5 MHz |
| Intermediate Frequency | .455 or 465 KHz (OPTION) |
| Usable Sensitivity | .45 dB (SW Dummy Use) |
| S/N Ratio | .35 dB (60 dB Input) |
| Image Rejection Ratio | .3 dB (At Maximum Sensitivity) |

● TAPE RECORDER

| | |
|------------------------|---------------------------------|
| Tape Speed | .± 3 Cm/Sec (MTT-III) |
| Wow & Flutter | .0.35% (JIS-WRMS, MTT-III) |
| Distortion | .5% (PLAY), 10% (REC/PLAY) |
| Output | .1.8W/1.6W (DC/AC) |
| S/N Ratio | .36 dB (PLAY), 25 dB (REC/PLAY) |
| Erase Ratio | .40 dB (CS-26) |
| 5EQ Frequency Response | .± 6dB (MTT-256) |

● **GENERAL**

| | |
|----------------|---|
| Circuit System | AC Bias/Magnet Erase Upper Heterodyne System 5 Band Graphic Equalizer |
| Speaker | Woofer: 40 ohm x 2EA (3.5 Inch) Tweeter: 40 ohm x 2EA (Piezo) |
| Power Source | DC: 9V ("D" Cell x 6) AC: 110/220V, 50/60 Hz (OPTION) |
| Antenna | FM/SW: Telescopic Rod Antenna MW: Ferrite Bar Antenna |

DIAL CORD STRINGING

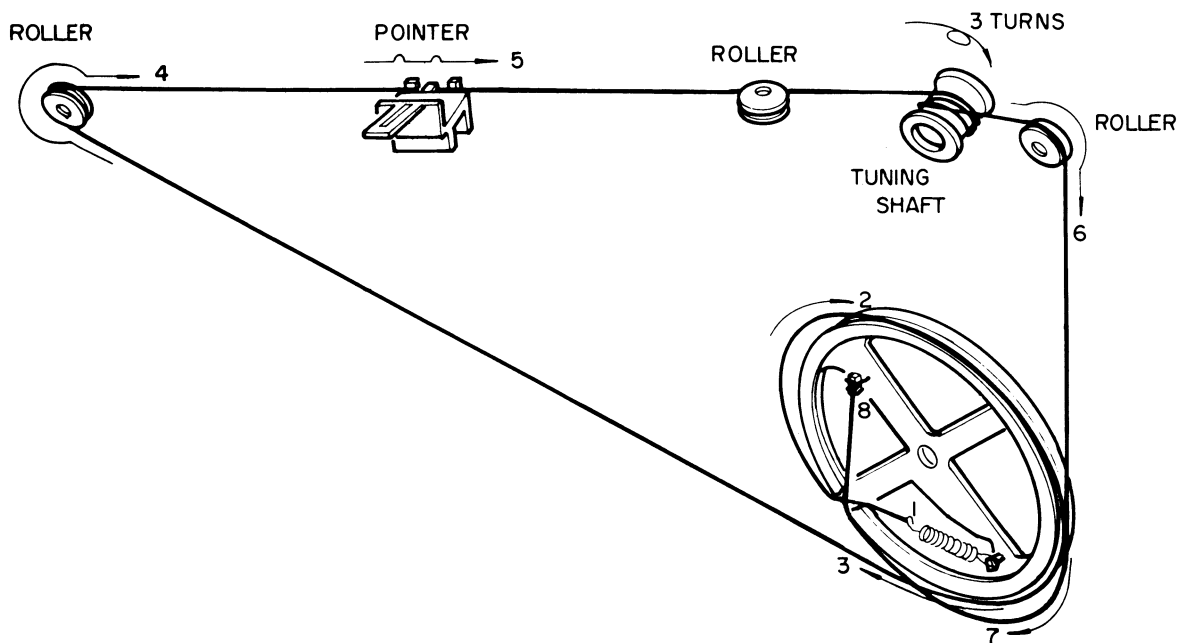


Figure 1.

Set the tuning capacitor to minimum frequency and string the cord following the numbers in figure1.

ADJUSTMENT

• EQUIPMENT NEEDED

1. AM Signal Generator
2. FM Signal Generator
3. AM/FM IF Genescope
4. FM Stereo Signal Generator
5. Oscilloscope
6. Output Meter (VTVM)
7. Frequency Counter
8. Nonmetallic Alignment Tools
9. Test Tape: MTT-141 (8KHz)

• IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band being aligned.
3. Turn volume control to minimum unless otherwise noted.
4. Connect low side of signal source and output indicator to chassis ground unless otherwise specified.
5. Keep the signal input as low as possible to avoid AGC and AFC action.
6. Standard modulation is 400Hz at 30% for AM. (400Hz at 22.5kHz deviation for FM)

• TEST AND ADJUSTMENT POINT

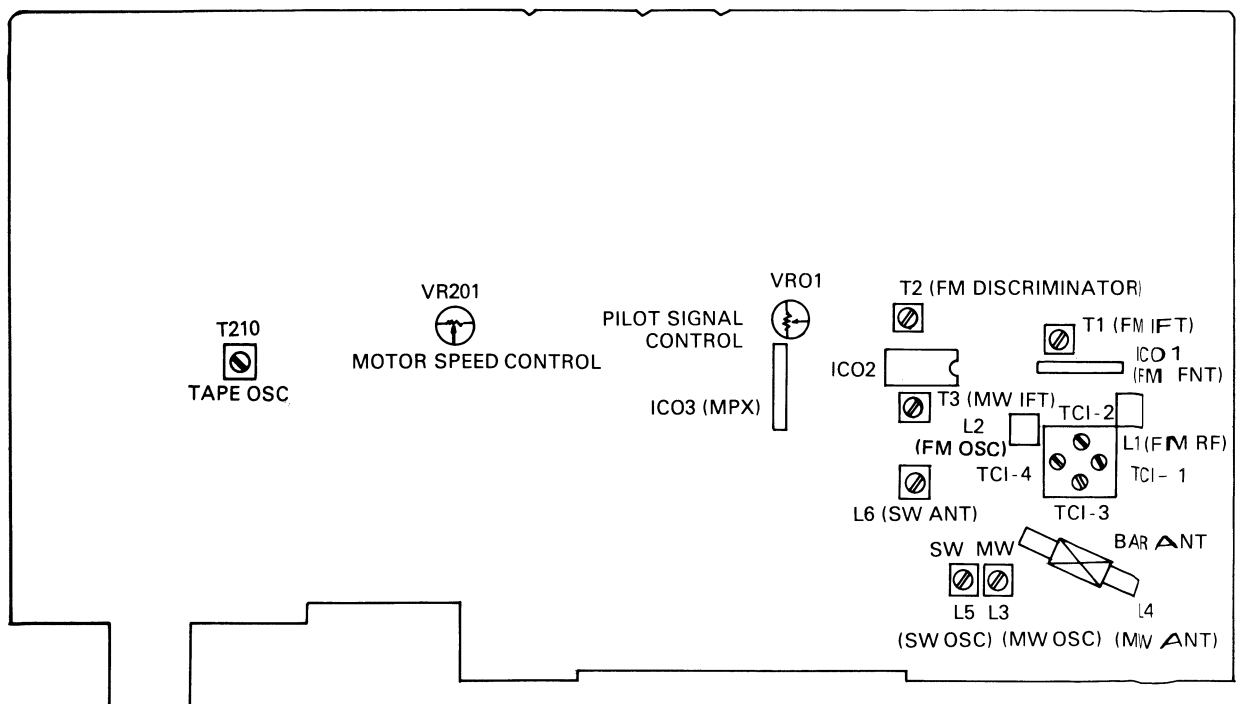


Figure 2. RF P.C. Board

• **MW SECTION**

| Circuit Alignment | Equipment Connection | Step | Generator Frequency | Dial Setting | Adjustment |
|-------------------|---|------|------------------------|--------------------------|---|
| IF | Connect input of IF Genescope to No. 9 Of ICO2 , output to MW Ant coil (L4) through the dummy. (Figure 3) | 1 | 455 KHz (400 Hz Mod.) | Tuning Gang fully closed | T3 (MW IFT)) Adjust for maximum output |
| | | 2 | | | Repeat until no further improvement can be made. |
| Band | AM Signal Generator with loop antenna. Output Meter (VTVM) across 4 ohm load. (Figure 4) | 3 | 520 KHz (400Hz Mod.) | Tuning Gang fully closed | L3 (MW OSC. Coil) Adjust for maximum output. |
| | | 4 | 1630 kHz (400 Hz Mod.) | Tuning Gang fully open | TC1-3 (MW OSC, Trimmer). Adjust for maximum output. |
| | | 5 | | | Repeat steps 3 & 4 |
| Tracking | AM Signal Generator with loop antenna. Output Meter (VTVM) across 4 ohm load (Figure 4) | 6 | 600 kHz (400 Hz Mod.) | Tune to signal | L4 (MW Ant. Coil). Adjust coil on ferrite core for maximum. |
| | | 7 | 1400 kHz (400 Hz Mod.) | Tune to signal | TC1-4 (MW Ant. Trimmer) Adjust for maximum output. |
| | | 8 | | | Repeat steps 6 & 7 several times. |

• **SW SECTION**

| Circuit Alignment | Equipment Connection | Step | Generator Frequency | Dial Setting | Adjustment |
|-------------------|---|------|------------------------|--------------------------|--|
| Band | AM Signal Generator to antenna terminals through SW dummy matching network. Output Meter (VTVM) across 4 ohm load. (Figure 5) | 1 | 5.7 MHz (400 Hz Mod.) | Tuning Gang fully closed | L5 (SW OSC. Coil). Adjust for maximum output. |
| | | 2 | 18.5 MHz (400 Hz Mod.) | Tuning Gang fully open | TC3 (SW OSC, Trimmer) . Adjust for maximum output. |
| | | 3 | | | Repeat steps 1 & 2 |
| Tracking | AM Signal Generator to antenna terminals through SW dummy matching network. Output Meter (VTVM) across 4 ohm load. (Figure 5) | 4 | 6.5 MHz | Turn to signal | L6 (SW Ant. Coil). Adjust for maximum output. |
| | | 5 | | | Repeat steps 4 & 5 several times. |

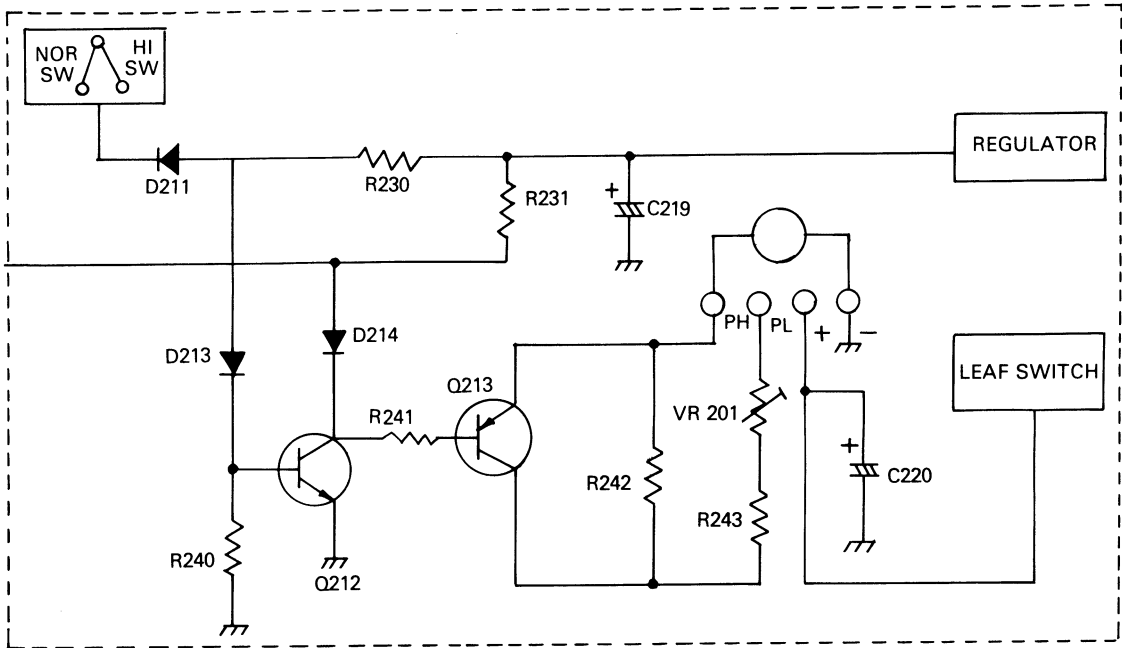
• **FM SECTION**

| Circuit Alignment | Equipment Connection | Step | Generator Frequency | Dial Setting | Adjustment |
|-------------------|---|------|--------------------------|--------------------------|---|
| IF | Connect input of IF Genescope to No. 8 of ICO2, output to the body of ICI through the dummy. (Figure 6) | 1 | 10.7 MHz | Tuning Gang fully closed | T1, T2 (FM IFT). Adjust for maximum symmetrical response (10.7 MHz at the center point) |
| | | 2 | | | Repeat step 1 |
| Band | FM Signal Generator to antenna terminals through 75 ohm antenna matching network. Output Meter (VTVM) across 4 ohm load. (Figure 7) | 3 | 87.35 MHz (400Hz Mod.) | Tuning Gang fully closed | L2 (FM OSC, Coil). Adjust for maximum output |
| | | 4 | 108.25 MHz (400 Hz Mod.) | Tuning Gang fully open | TCI-2 (FM OSC. Trimmer) Adjust for maximum output |
| | | 5 | | | Repeat steps 3 & 4 several times. |
| Tracking | FM Signal Generator to antenna terminals through 75 ohm antenna matching network. Output Meter (VTVM) across 4 ohm load. (Figure 7) | 6 | 90 MHz (400 Hz Mod.) | Tune to signal | L1 (FM Ant. Coil). Adjust for maximum output |
| | | 7 | 106 MHz (400 Hz Mod.) | Tune to signal | TCI-1 (FM Ant Trimmer). Adjust for maximum output. |
| | | 8 | | | Repeat steps 6 & 7 to obtain suitable sensitivity at 90 MHz and 106 MHz. |

• **FM MPX ADJUSTMENT**

| Circuit Alignment | Equipment Connection | Step | Generator Frequency | Dial Setting | Adjustment |
|----------------------------|---|------|----------------------|--------------|---|
| 38 kHz \pm 0.1 kHz (ROI) | FM Stereo Generator composite out connected to Ext. Mod of FM Signal Generator. FM Signal Generator to antenna terminals matching 75 ohm antenna matching network. Frequency Counter across TP (Pin No. 6 of ICO3) (Figure 8) | 1 | | | First make sure FM section properly aligned. |
| | | 2 | 98 MHz (1 mV output) | 98 MHz | Adjust VR 704 for Frequency Counter indicates 38 kHz \pm 0.1 KHz. |

MOTOR SPEED ADJUSTMENT

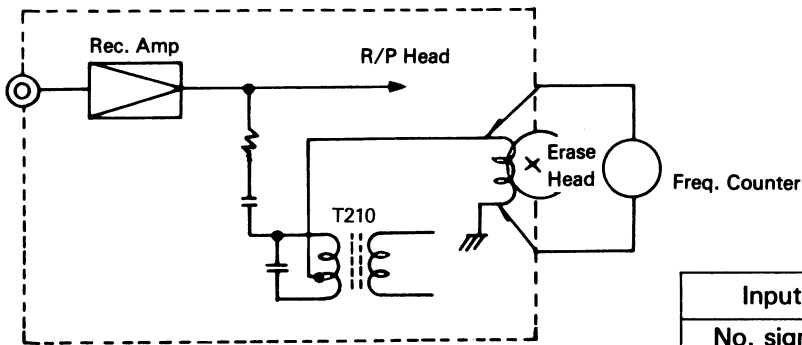


NORMAL-SPEED ADJUSTMENT

Dubbing switch: Normal-speed

| Input | Adjust for | Adjustment | Output |
|---------|-------------------|------------|-------------|
| GTT-111 | 3000Hz \pm 30Hz | VR201 | Speaker out |

• BIAS FREQUENCY ADJUSTMENT



| Input | Adjust for | Adjustment |
|------------|------------|------------|
| No. signal | 60 kHz | T210 |

NOTE. RIF S/W: "2" position.

TEST EQUIPMENT CONNECTIONS

Figure 3 MW IF

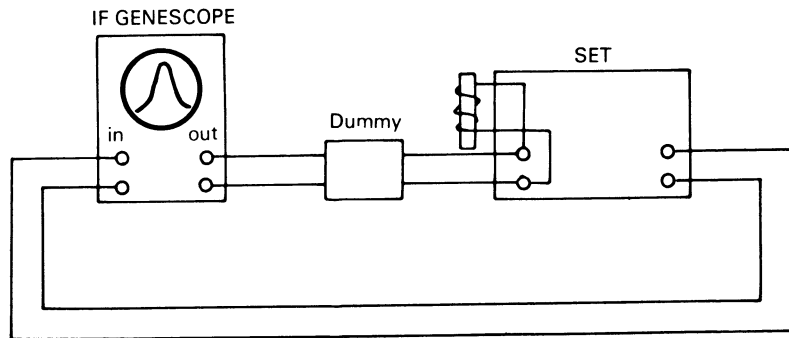


Figure 4. MW Band/Tracking

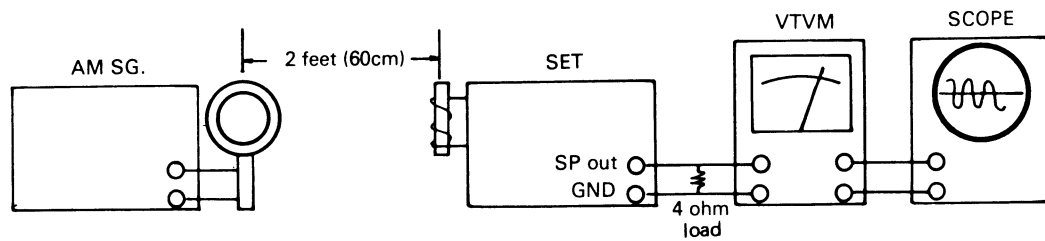


Figure 5. SW Band/Tracking

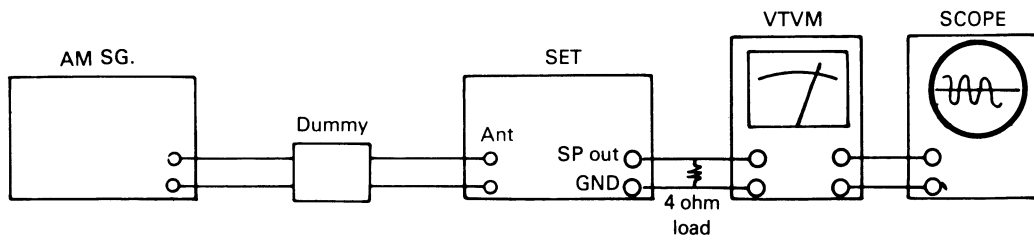


Figure 6. FM IF

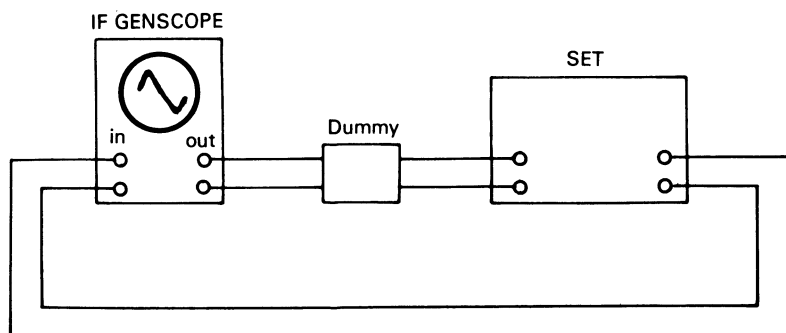


Figure 7. FM Band/Tracking

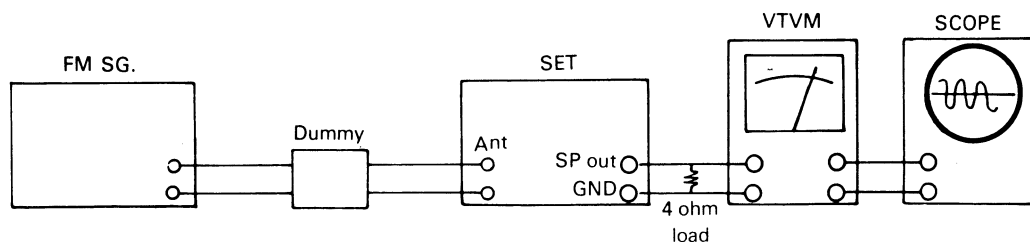
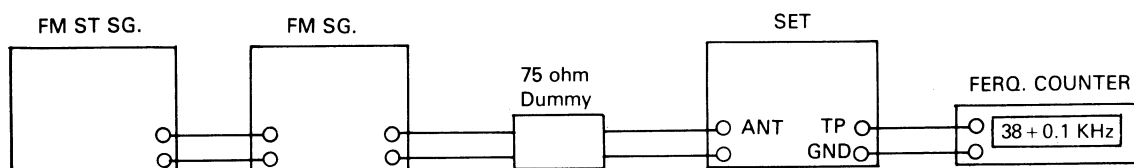


Figure 8. 38 + 0.1 KHz Pilot



STANDARD MAINTENANCE

Tape Head and Capstan Cleaning

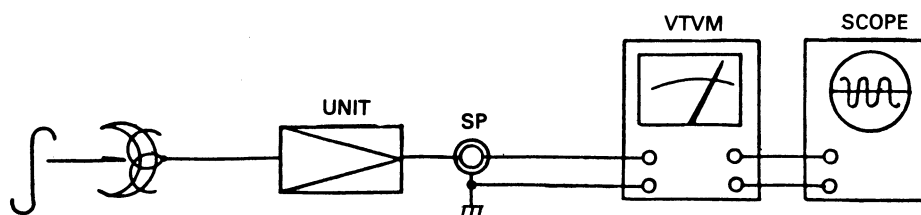
Whenever a unit is brought in for service or repair, clean the tape heads, capstan drive shaft and other tape handling surfaces to ensure proper tape handling and optimum frequency response. Use a cotton swab dipped in head cleaner or denatured alcohol to clean all tape handling surfaces. Wipe dry.

Tape Head Demagnetization

Do not use magnetized tools near the tape heads, since they can magnetize the head. After long period of the heads will retain a small amount of residual magnetism. A magnetized head will result in loss of high frequency response and increased noise, use a standard tape head demagnetizer and follow the instructions supplied with it to demagnetize the heads.

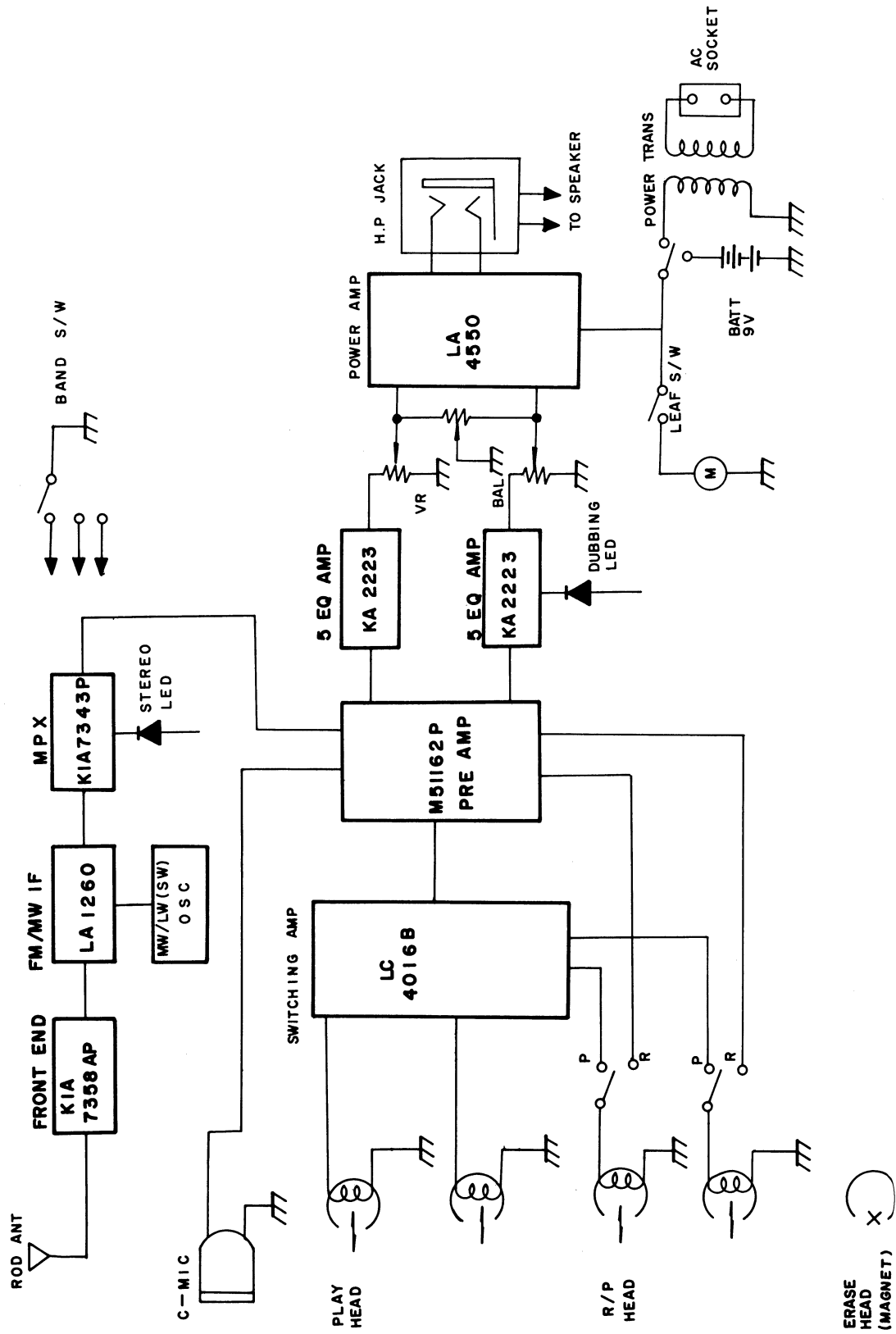
Azimuth Adjustment

1. Azimuth adjustment is normally required when the head is replaced, or for cases of cross-talk and poor high frequency response. A test tape is required for such adjustment.
2. Connect a scope or VTVM to the right channel EXT. SP jack. Insert a test tape into the unit (use a test tape such as TEAC MTT-141). Adjust the azimuth adjustment screw for maximum output onto the right channel. Use glyptal or other non-hardening cement to lock the azimuth adjustment screw.



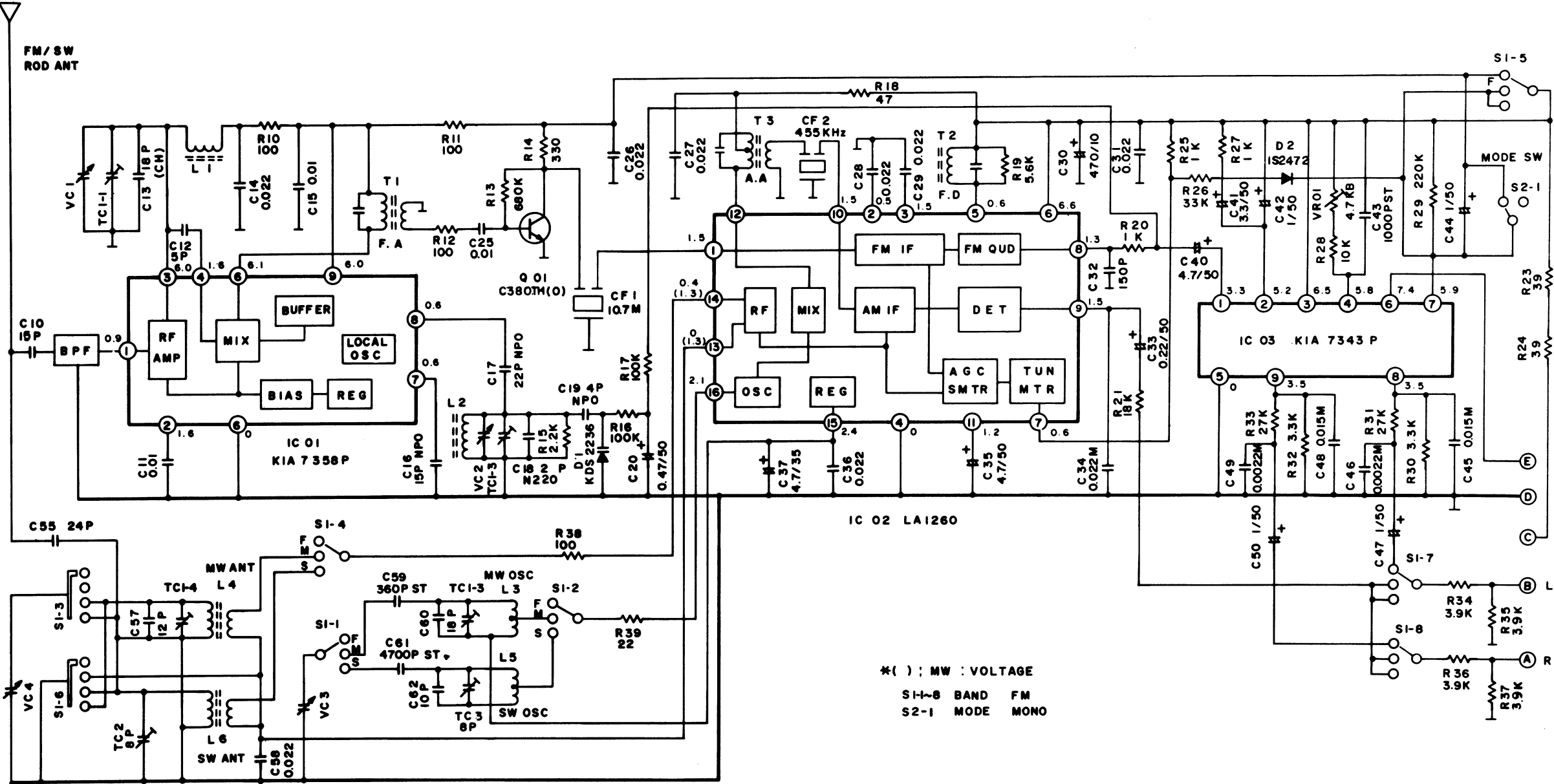
(Left channel is the same as right)

BLOCK DIAGRAM



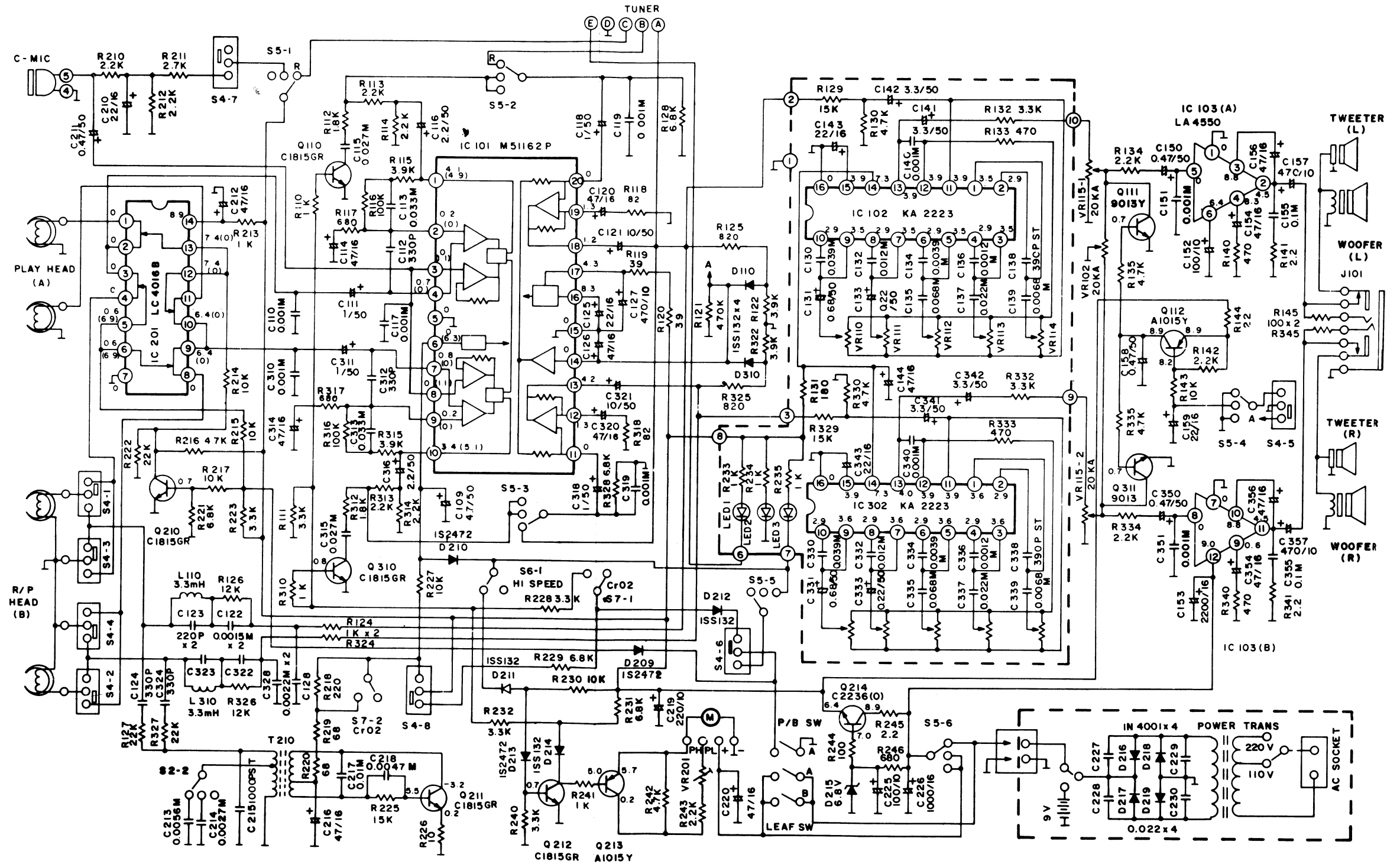
SCHEMATIC DIAGRAM

• MODEL: TWC-7083 (RF)



NOTE
1 ALL RESISTOR VALUES ARE IN OHM (K=100)
2 ALL CAPACITOR VALUES ARE IN MICROFARAD (P=100P)
3 THIS SCHEMATIC DIAGRAM MAY BE CHANGED FOR
IMPROVEMENT OF PERFORMANCE WITHOUT NOTICE.

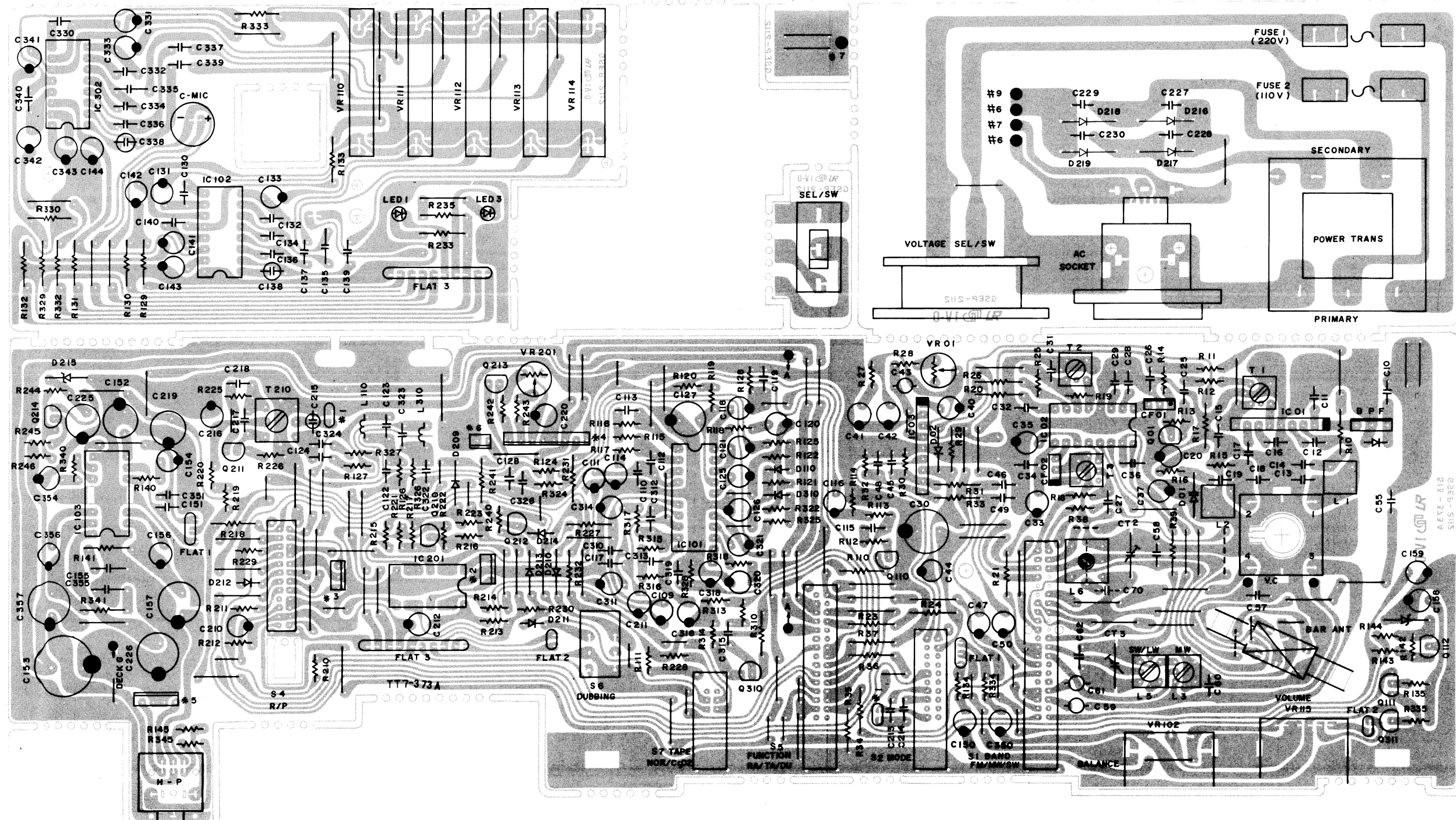
• MODEL: TWC-7083 (AUDIO)



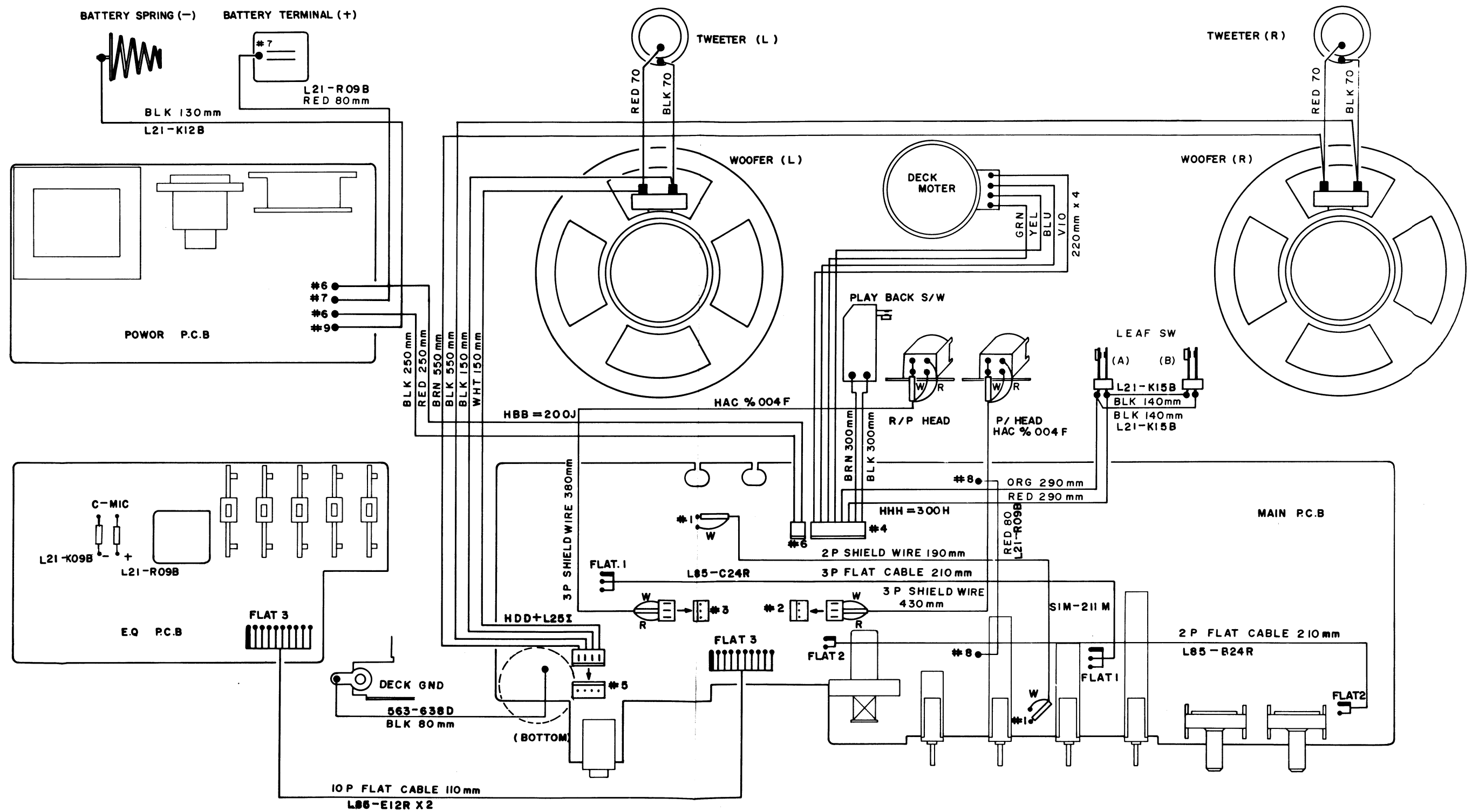
NOTE

- 1 ALL RESISTOR VALUES ARE IN OHM (K=100)
- 2 ALL CAPACITOR VALUES ARE IN MICROFARAD (P=100P)
- 3 THIS SCHEMATIC DIAGRAM MAY BE CHANGED FOR IMPROVEMENT OF PERFORMANCE WITHOUT NOTICE

PCB LAYOUT

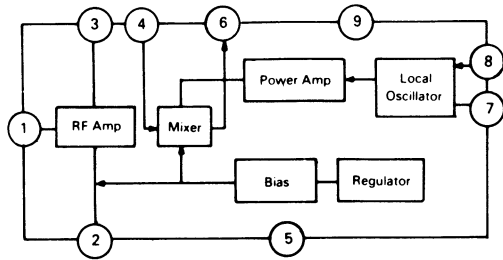


WIRING DIAGRAM

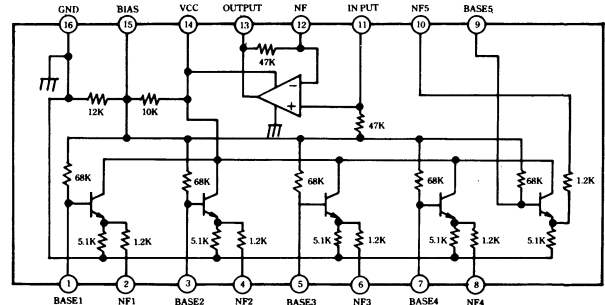


IC INTERNAL DIAGRAM

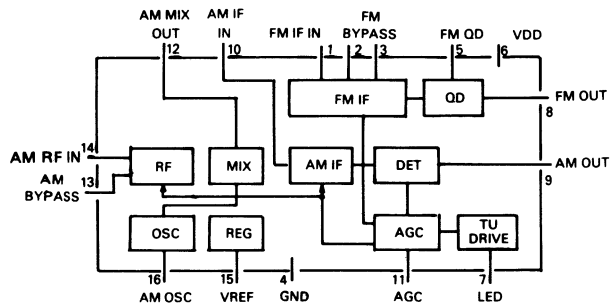
IC01 KIA7358P-FM FNT



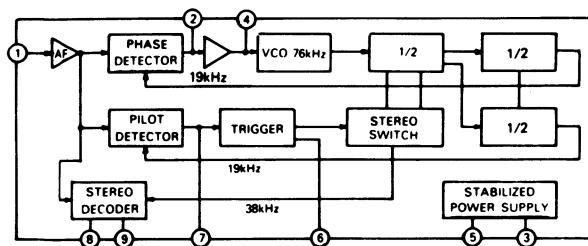
IC102, 302 KA2223-EQ AMP



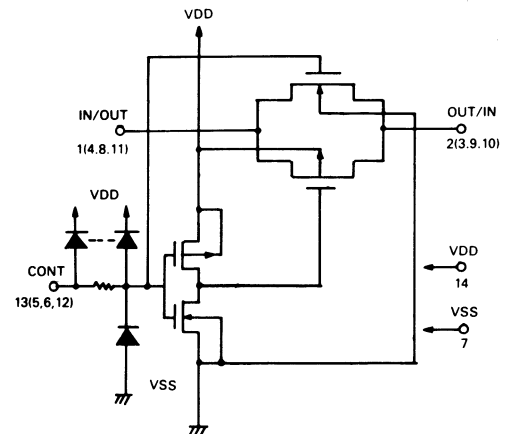
IC02 LA1260



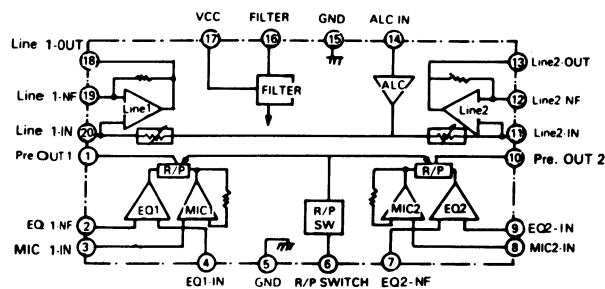
IC03 KIA 7343P-FM MPX



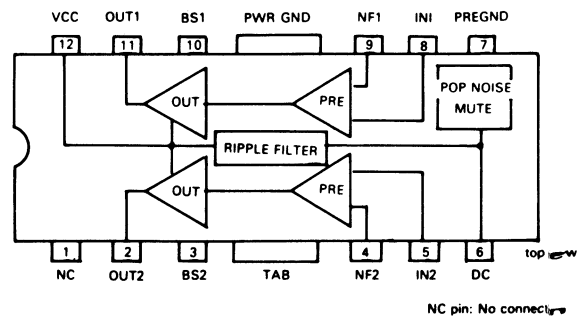
IC201 LC4016B



IC101 M51162P

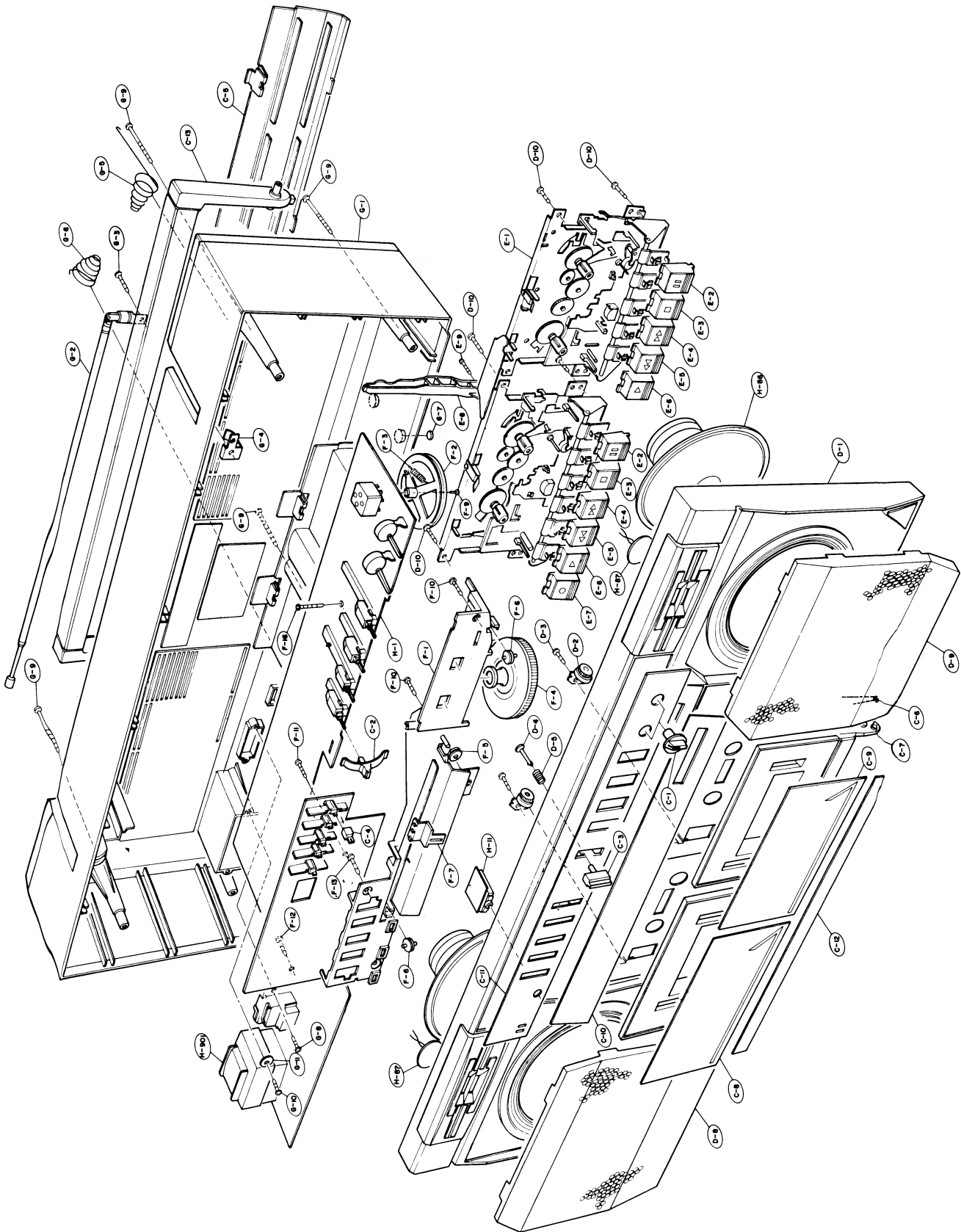


IC103 LA4550

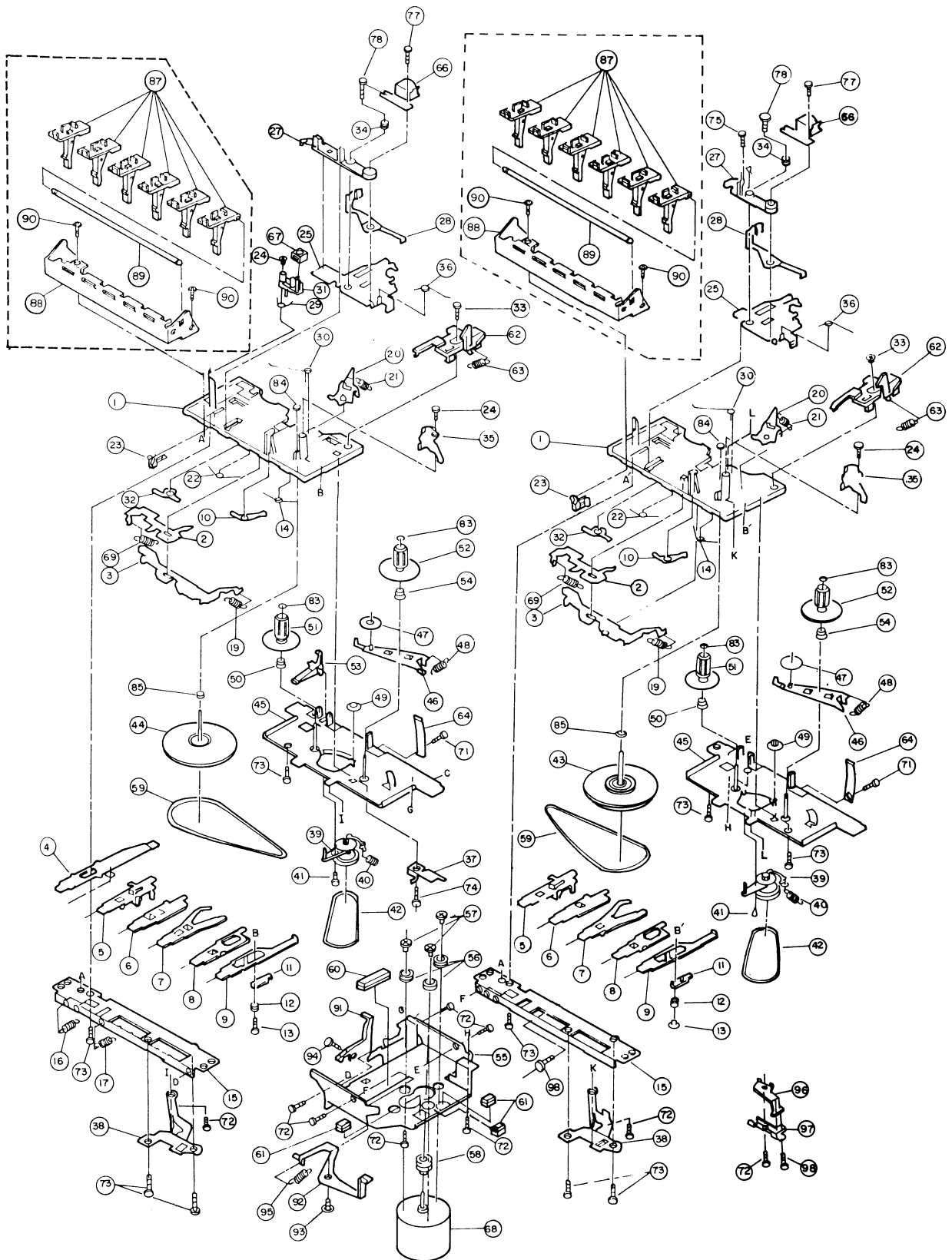


EXPLODED VIEW

• CABINET



• DECK MECHANISM



NOTE: Excluded parts in the parts list are not available as replacement parts.

REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a have special characteristics important to safety. Before replacing any of these components, read carefully the safety precaution of this service manual, don't degrade the safety of the receiver through improper servicing.

NOTE: N.S.P. (Not Service Part)

These parts are not available as repair parts because they are too costly or are not practical to replace or never expected to fail the life expectancy of the unit.

• ELECTRICAL

| LOCATION NO. | PART NO. | DESCRIPTION | REMARK | LOCATION NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------------|----------|--------------------|--------|-------------------------------|----------|--------------------|--------|
| INTEGRATED CIRCUITS | | | | D310 | 651T031A | Switch, ISS132 | |
| IC01 | 668-108D | KIA7358P (FM FNT) | | D311 | 651T031A | Switch, ISS132 | |
| IC02 | 668-192B | LA1260 (FM/AM IF) | | D312 | 651T031A | Switch, ISS132 | |
| IC03 | 668-159A | KIA7343P (MPX) | | D314 | 651T031A | Switch, ISS132 | |
| IC101 | 668-660A | M51162P (EQ+Line) | | LED1 | 653-625A | LED, KLR208E RD | |
| IC102 | 668-655D | KA2223 (EQ Amp) | | LED2 | 653-625B | LED, KLG208E GN | |
| IC103 | 668-668A | LA4550 (Power Amp) | | COILS AND TRANSFORMERS | | | |
| IC201 | 668-662C | LC4016B | | L1 | 635-608C | Coil, FM RF | |
| IC302 | 668-655D | KA2223 (EQ Amp) | | L2 | 635-020B | Coil, FM OSC | |
| TRANSISTORS | | | | L3 | 634-037N | Coil, MW OSC | |
| Q1 | 665-820B | KTC380TM-O | | L4 | 632-211E | Coil, MW ANT | |
| Q110 | 665-812C | KTC1815-GR | | L5 | 634-020H | Coil, SW OSC | |
| Q111 | 665-703B | KTC9013A-H | | L6 | 634-609A | Coil, SW ANT | |
| Q112 | 665-813B | KTA1015-Y | | L110 | 637-005B | Coil, Peaking 33mH | |
| Q210 | 665-812C | KTC1815-GR | | L310 | 637-005B | Coil, Peaking 33mH | |
| Q211 | 665-812C | KTC1815-GR | | T1 | 644-018F | Trans, FM IF | |
| Q212 | 665-812C | KTC1815-GR | | T2 | 647-011F | Discriminator | |
| Q213 | 665-813B | KTA1015-Y | | T3 | 644-039M | Trans, MW IF | |
| Q214 | 665-881C | KTC2236AY | | T210 | 634-036C | Coil, Tape OSC | |
| Q310 | 665-812C | KTC1815-GR | | SWITCHES AND JACK | | | |
| Q311 | 664-703B | KTC9013A-H | | S1 | 556-620F | SLY383-S, H=12.5 | |
| DIODES | | | | S2 | 556-620A | SLY343-S, H=12.5 | |
| D1 | 654-418A | AFC, IS2236 | | S4 | 552-606G | CL208J-S | |
| D2 | 652T605B | Switch, IS2472 | | S5 | 556-620B | SLY363-S, H=12.5 | |
| D110 | 651T031A | Switch, ISS132 | | S6 | 554-631A | SUF12-S, H=12.5 | |
| Q209 | 652T605B | Switch, IS2472 | | S7 | 556-620C | SLY322V-S, H=12.5 | |
| Q210 | 652T605B | Switch, IS2472 | | J101 | 571-103A | D=3.5 HSJ1064 | |
| D213 | 665-813B | Switch, IS2472 | | VOLUMES | | | |
| D215 | 654-723C | Zener, DZ 6.8 B, M | | VR102 | 611-648P | VR, K161A00-20KW | |
| D216 | 652-005A | Rect, IN4001 | | VR110 | 612-619E | VR, S152GGA-100KB | |
| D217 | 652-005A | Rect IN4001 | | VR111 | 612-619E | VR, S152GGA-100KB | |
| D218 | 652-005A | Rect IN4001 | | VR112 | 612-619E | VR, S152GGA-100KB | |
| D219 | 652-005A | Rect IN4001 | | | | | |

| LOCATION NO. | PART NO. | DESCRIPTION | REMARK | LOCATION NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|----------|-------------------|--------|--------------|----------|---------------------|--------|
| VR113 | 612-619E | VR, S152GGA-100KB | | CF1 | 616-008A | Filter, SFE 10.7MS2 | |
| VR114 | 612-619E | VR, S152GGA-100KB | | CF2 | 616-003E | Filter, SFU 405B | |
| VR115 | 611-647X | VR, K162JOO-20KA | | ⚠ | 622-012B | Varicon Poly | |
| MISCELLANEOUS | | | | BPF1 | 616-011G | Filter, BP-BPMB8 | |
| | | | | ⚠ | 542-035B | Condenser Mic | |
| | | | | ⚠ | 641-724C | Trans, Power | |
| TC2, 3 | 623N023B | Trimmer | | ⚠ | 577-005C | AC Socket | |

• CABINET

| LOCATION NO. | PART NO. | DESCRIPTION | REMARK | LOCATION NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|----------|---------------------|--------|--------------|----------|------------------------|--------|
| A-12 ! | 681-035C | Power Cord | | E-15 | MBC0726L | Screw MBC+1.7x5 | |
| C-1 | 273-029F | KNOB Control | | E-16 | 513-100A | PWB LEAF Switch | |
| C-2 | 273-017B | KNOB Lever S/W | | F | 311-083A | Chassis Assy' | |
| C-3 | 273-783A | KNOB Push | | F-1 | 313-083A | Chassis | |
| C-4 | 273-065B | KNOB EQ V/R | | F-2 | 431-052A | Pulley-Dial | |
| C-5 | 221-083A | Cover BAT | | F-3 | 442-004E | Spring | |
| C-6 | 442-750A | Spring-Door | | F-4 | 271-028D | KNOB Tuning | |
| C-7 | 226-783A | Door CST | | F-5 | 434-038B | Roller | |
| C-8 | 236-783A | Window Door (L) | | F-6 | 434-018A | Roller | |
| C-9 | 236-783B | Window Door (R) | | F-7 | 361-083A | Pointer | |
| C-10 | 236-784A | Window Scale | | F-8 | 886-0002 | Cord Dial 0.47 (0.3LT) | |
| C-11 | 236-785A | Window Function | | F-9 | MPC1530J | Screw, MPC+2.6x6 | |
| C-12 | 236-786A | Window Decoration | | F-10 | 353-025G | Screw, Special 3x10 | |
| C-13 | 261-783A | Handle Assembly | | F-11 | 353-025S | Screw, Special 3x21 | |
| D-1 | 217-082A | Case Front Assy' | | F-12 | 353-025G | Screw, Special 3x10 | |
| D-2 | 444-111A | Damper Assy' | | F-13 | 353-025F | Screw, Special 3x8 | |
| D-2-1 | 441-112A | Damper Gear | | F-14 | 341-013A | Bushing MIC | |
| D-2-2 | 324-112A | Holder Gear | | F-15 | 324-995H | Holder LED | |
| D-3 | 353-025G | Screw, Special 3x10 | | F-16 | 353-025F | Screw, Special 3x8 | |
| D-4 | 324-426A | Holder, Push KNOB | | G | 215-084A | Case Assy' Rear | |
| D-5 | 442-634G | Spring KNOB | | G-1 | 217-084A | Case Rear | |
| D-10 | 353-025G | Screw, Special 3x10 | | G-2 | 532-205B | Rod Antenna | |
| E | 412-017A | Deck Ass'y | | G-3 | MAC1839L | Screw, MAC+3x10 | |
| E-1 | 419-011M | Deck Mech' | | G-4 | 563-083A | Terminal ANT | |
| | | TN21SW-1199 | | G-5 | 442-714B | Spring, Battery (A) | |
| E-2 | 275-055G | Button-Deck, Pause | | G-6 | 442N282I | Spring, Battery (B) | |
| E-3 | 275-055H | Button-Deck, Stop | | G-7 | 447-059A | Cushion Spring | |
| E-4 | 275-055I | Button-Deck, F.F | | G-8 | 353-025G | Screw, Special 3x10 | |
| E-5 | 275-055J | Button-Deck, REW | | G-9 | 353-041B | Screw, Special | |
| E-6 | 275-055K | Button-Deck, Play | | G-10 | 353-025G | Screw, Special 3x10 | |
| E-7 | 275-055L | Button-Deck, REC | | G-11 | 354-601F | Washer, Metal | |
| E-8 | 333-083A | Lever Recording | | H | 511-373A | PCB Ass'y | |
| E-9 | MPC0930J | Screw | | | | | |

● DECK MECHANISM

| LOCATION NO. | PART NO. | DESCRIPTION | REMARK | LOCATION NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|----------|-------------------------|--------|--------------|----------|---------------------------|--------|
| 20 | 99T-1094 | Auto Lever | | 67 | 99T-1098 | E. Head | |
| 21 | 99T-0919 | Auto Lever Spring | | 68 | 99T-1102 | Motor | |
| 23 | 99T-1103 | LEAF Switch | | 71 | 99T-0960 | C. Tapping Screw M2x3 | |
| 34 | 99T-0928 | Azimuth Spring | | 72 | 99T-0961 | C. Tapping Screw M2x4 | |
| 36 | 99T-0929 | Pinch Roller Arm Ass'y | | 73 | 99T-1045 | P Tapping Bind Screw M2x5 | |
| 42 | 99T-0934 | RF Belt | | 74 | 99T-1123 | P Tapping Screw M2x6 | |
| 53 | 99T-1119 | Record Safety Lever | | 75 | 99T-1057 | Screw M2x6 | |
| 59 | 99T-0980 | Main Belt | | 93 | 99T-0972 | P.K. Coller Screw (A) | |
| 60 | 99T-0979 | Anti Vibraion Felt Mat | | 94 | 99T-0973 | P.K. Coller Screw (B) | |
| 61 | 99T-1131 | Anti Vibration Felt Mat | | 95 | 99T-0974 | P. Kick Lever Spring | |
| 62 | 99T-1026 | Eject Slide Lever | | 97 | 99T-1134 | Leaf Switch | |
| 64 | 99T-0954 | Pack Spring | | | | MSW-1412TNBK | |
| 65 | 99T-1132 | P. Head | | 98 | 99T-1135 | Screw (2.0x4) | |
| 66 | 99T-1143 | R.P. Head | | | | | |